1 **CLAIM LISTING** 2 (Previously Presented) A method of designing a logic circuit to provide a predetermined 3 1. logical operation, the method including the steps of: defining a logic synthesis block comprising a single dynamic logic circuit; (a) 6 (b) performing logic synthesis for the predetermined logical operation to produce an intermediate circuit, the logic synthesis being performed utilizing a synthesis 7 8 library constrained to the logic synthesis block; eliminating unused devices in the intermediate circuit to produce a final circuit; 9 (c) 10 and 11 (d) sizing the devices in the final circuit. 12 (Original) The method of Claim 1 wherein the step of defining the logic synthesis block 13 2. includes selecting the largest practical dynamic AND/OR circuit for the integrated circuit 14 fabrication technology in which the circuit is to be implemented. 15 16 (Original) The method of Claim 2 wherein the logic synthesis block comprises a four 17 3. 18 high and four wide dynamic AND/OR circuit. 19 (Original) The method of Claim 1 wherein the step of performing logic synthesis 20 4. 21 includes leaving the size of the devices in the logic synthesis block substantially unconstrained. 22 23

1 (Original) The method of Claim 1 wherein the step of eliminating unused devices from 5. 2 the intermediate circuit includes detecting devices having a state that remains constant as the intermediate circuit operates to provide the predetermined logical operation. 3 4 6. (Original) The method of Claim 1 wherein the step of sizing the devices in the final 5 circuit includes analyzing the final circuit to determine the characteristics of each device 6 in the final circuit necessary in order to consistently provide the predetermined logical 7 8 operation and meet drive requirements. (Original) The method of Claim 1 wherein the logic synthesis block uses a single 10 7. 11 activation/reset clock signal. 12 13 8. (Previously Presented) A method of synthesizing a logic circuit to provide a predetermined logical operation, the method including the steps of: 14 defining a logic synthesis block comprising a single dynamic logic circuit; and 15 (a) performing logic synthesis for the predetermined logical operation to produce an 16 (b) intermediate circuit, the logic synthesis utilizing a synthesis library constrained to 17 18 the single dynamic logic circuit comprising the logic synthesis block. 19 (Original) The method of Claim 8 wherein the step of defining the logic synthesis block 9. 20 includes selecting the largest practical dynamic AND/OR circuit for the fabrication 21 technology in which the circuit for performing the predetermined logical operation is to 22 23 be implemented.

1	10.	(Original) The method of Claim 8 wherein the logic synthesis block comprises a four
2		high and four wide dynamic AND/OR circuit.
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4	11.	(Original) The method of Claim 8 wherein the step of performing logic synthesis for the
5		predetermined logical operation includes leaving device size in the logic synthesis block
6		substantially unconstrained.
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8	12.	(Original) The method of Claim 8 wherein the dynamic logic circuit comprising the
9		logic synthesis block operates using a single activation/reset clock signal.
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11	13.	(Currently Amended) In a circuit design method utilizing a logic synthesis tool and
12		predefined logic circuit library to provide a logic implementation for a predetermined
13		logical operation, the improvement comprising:
14		(a) defining a logic synthesis block comprising a single dynamic logic circuit; and
15		(b) <u>in performing logic synthesis for the predetermined logical operation to produce</u>
16		an intermediate circuit, constraining the logic synthesis tool to the logic synthesis
17		block.
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19	14.	(Original) The method of Claim 13 wherein the logic synthesis tool produces an
20		intermediate circuit design which performs the predetermined logical operation, and
21		further including the steps of:
22		(a) eliminating unused devices in the intermediate circuit design to produce a final
23		circuit; and
24		(b) sizing the devices in the final circuit.

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2	15.	(Original) The method of Claim 13 wherein the step of defining the logic synthesis block
3		includes selecting the largest practical dynamic AND/OR circuit for the circuit
4		fabrication technology in which the circuit design is to be implemented.
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6	16.	(Original) The method of Claim 13 wherein the logic synthesis block comprises a four
7		high and four wide dynamic AND/OR circuit.
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9	17.	(Original) The method of Claim 13 further including the step of leaving the device size
10		in the logic synthesis block substantially unconstrained for the logic synthesis tool.
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12	18.	(Original) The method of Claim 13 wherein the logic synthesis block uses a single

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activation/reset clock input.